

## CLAIMS

- 5     1. An adjustable height seat, comprising:  
         a chair frame, a telescoping support mounted to said chair frame, a seat  
supported on said telescoping support, a spring normally urging said telescoping support  
towards an elevated condition, said telescoping support being operative for raising and  
lowering said seat relative to said chair frame responsive to repositioning of a user's  
10     body weight on said seat.
2. The adjustable height seat of Claim 1 wherein said seat is depressed from an  
elevated to a lowered position when the user's body assumes a relatively reclined  
15     position wherein the user's body weight overcomes said urging of said spring.
3. The adjustable height seat of Claim 1 wherein said seat is elevated from a lowered  
position when the user's body is partially offloaded from said seat onto a ground surface  
20     such that said spring overcomes the user's remaining body weight on said seat and  
causes telescoping extension of said telescoping support for raising said seat relative to  
said frame.
- 25     4. The adjustable height seat of any of Claims 1 through 3 wherein said telescoping  
support is frictionally arrested against substantial telescoping movement in a generally  
upright or forward leaning seated position of the user on said seat.
- 30     5. The adjustable height seat of Claim 4 wherein said telescoping support is inclined  
away from the vertical.

6. The adjustable height seat of Claim 5 wherein said chair has a back, a front and two sides and said telescoping support is inclined towards said front between said sides.
- 5 7. The adjustable height seat of any of Claims 1 through 3 wherein said telescoping support has an upper member telescopically slidable relative to a lower member, said seat being mounted on said upper member.
- 10 8. The adjustable height seat of Claim 1 through 3 wherein said telescoping support has tubular upper and lower members telescopically slidable relative each other and said spring is contained in said tubular upper and lower members.
- 15 10. The adjustable height seat of Claim 8 wherein said upper member and said lower member are of rectangular cross section.
- 20 11. The adjustable height seat of Claim 8 wherein said upper member is slidable within said lower member.
12. The adjustable height seat of Claim 8 wherein said spring is a gas spring.
- 25 13. The adjustable height seat of Claim 1 wherein said chair frame is a wheel chair frame.
- 30 14. The adjustable height seat of Claim 13 wherein said wheel chair frame is a folding wheel chair frame.

15. The adjustable height seat of Claim 13 or Claim 14 wherein said telescoping support is removably mounted to said wheel chair frame.

5 16. An adjustable height seat, comprising:

a chair frame, a seat supported on a movable member slidable relatively to a stationary member on said frame, a spring normally urging said movable member towards an elevated condition, said movable member and said stationary member being arranged and configured such that said movable member is arrested against movement  
10 relative to said stationary member in a generally normal seated position of the user such that said seat remains at a selected position relative to said frame, and the body weight of said user overcomes said urging of the spring in a relatively reclining position of the user thereby to depress said movable member for lowering said seat on said frame, and said seat can be raised on said frame by partially offloading the user's body weight from  
15 said seat onto a ground surface such that said spring overcomes the user's remaining body weight on said seat thereby elevating said movable member and said seat.

17. The adjustable height seat of Claims 16 wherein said movable member is arrested  
20 by frictional engagement with said stationary member.

18. The adjustable height seat of Claim 17 wherein said movable member and said stationary member are assembled in telescoping relationship.  
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19. The adjustable height seat of Claim 16 wherein said chair frame is a foldable chair frame and one or both of said movable member and said stationary member are removable from said chair frame to permit folding of said chair frame.  
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20. A folding wheel chair with riser seat, comprising:

a wheel chair frame having left and right frame subassemblies, a scissor arrangement including a center pivot interconnecting said frame subassemblies for movement towards and away from each other between a deployed condition and a folded condition of the wheel chair, a telescoping support mounted between said frame subassemblies, a seat supported on said telescoping support for movement between a lowered and an elevated condition, said telescoping support being operative for raising and lowering said seat relative to said chair frame responsive to repositioning of a user's body weight on said seat relative to said telescoping support, said seat being removable from between said frame subassemblies to permit folding of the wheelchair frame.

21. The folding wheel chair with riser seat of Claim 20 wherein said telescoping support comprises a spring normally urging said telescoping support towards said elevated condition.

22. The folding wheel chair with riser seat of Claim 21 wherein said telescoping support is designed, arranged and configured such that a frictional force between members of said telescoping support is reduced when a user reclines on said seat and the body weight of said user overcomes said urging of said spring thereby to cause telescoping retraction of said support for lowering said seat on said frame.

23. The folding wheel chair with riser seat of Claim 21 wherein said seat is elevated on said frame in response to the user partially shifting his or her body weight onto a ground surface such that said spring overcomes the user's body weight remaining on said seat and causes telescoping extension of said telescoping support for raising said seat relative to said frame.

24. The folding wheel chair with riser seat of any of Claims 20 through 23 wherein said telescoping support has at least two tubular members assembled in sliding telescoping relationship.

25. The folding wheel chair with riser seat of Claim 24 wherein said telescoping support has an upper member telescopically slidable relative to a lower member, said seat being  
5 mounted on said upper member, and a spring contained in said upper member and said lower member for urging said upper member and said seat towards said elevated condition.

10 26. The folding wheel chair with riser seat of any of Claims 20 through 23 wherein said telescoping support is supported at said center pivot between said frame subassemblies.

27. The folding wheel chair with riser seat of Claim 26 wherein said scissor arrangement  
15 includes cross braces interconnecting said frame subassemblies and joined for scissor movement at said center pivot, and foldable slide braces arranged for providing a second support point for said telescoping support in said deployed condition of the wheelchair thereby to maintain said telescoping support upright between said frame subassemblies.

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28. The folding wheel chair with riser seat of any of Claims 20 through 23 and 25 wherein said telescoping support is mounted on a riser seat frame, said riser seat frame being removably supported on said wheel chair frame in a deployed condition of said  
25 wheel chair.

29. The folding wheel chair with riser seat of Claim 28 wherein said frame is of adjustable width thereby to fit wheel chair frames of different width between said frame  
30 subassemblies.

30. The folding wheel chair with riser seat of Claim 28 wherein said frame has a pair of transverse supports connected by a pair of longitudinal beams, said telescoping support being mounted between said longitudinal beams.

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31. The folding wheel chair with riser seat of Claim 28 wherein said frame has a pair of transverse supports and hanger brackets on each of said transverse supports for suspending said frame from said frame subassemblies.

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32. The folding wheel chair with riser seat of Claim 31 wherein said transverse supports are of telescoping length for adjusting the spacing between said hanger brackets.

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33. The folding wheel chair with riser seat of Claim 32 further comprising fasteners for fixing said length of said transverse supports.

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34. A riser seat for installation in a wheelchair of the type having left and right frame subassemblies and a non-rising seat removably suspended between said subassemblies, said riser seat comprising:

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a removable frame adapted to be removably suspended between said frame subassemblies interchangeably with said non-rising seat, a telescoping support mounted on said removable frame, a seat on said telescoping support, a spring for urging said telescoping support towards an upwardly extended condition thereby to elevate said seat relative to said removable frame, said telescoping support being operative for raising and lowering said seat relative to said removable frame responsive to repositioning of a user's body weight on said seat.

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35. The riser seat of Claim 34 wherein said removable frame is of adjustable width thereby to fit wheel chairs of different width between said removable frame subassemblies.

36. The riser seat of Claim 34 wherein said removable frame has a pair of transverse supports connected by a pair of longitudinal beams, said telescoping support being  
5 mounted between said longitudinal beams.

37. The riser seat of Claim 36 wherein said removable frame has a pair of transverse supports and hanger brackets on each of said transverse supports for suspending said  
10 removable frame from said frame subassemblies.

38. The riser seat of Claim 37 wherein said transverse supports are of telescoping length for adjusting the spacing between said hanger brackets.  
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39. The riser seat of Claim 38 further comprising fasteners for fixing said length of said transverse supports.